

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: INVUE

Report Number: P180667

Luminaire Tested: **ICM-E02-LED-E1-SL3-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180667
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33679)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-E02-LED-E1-SL3-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5159.3 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

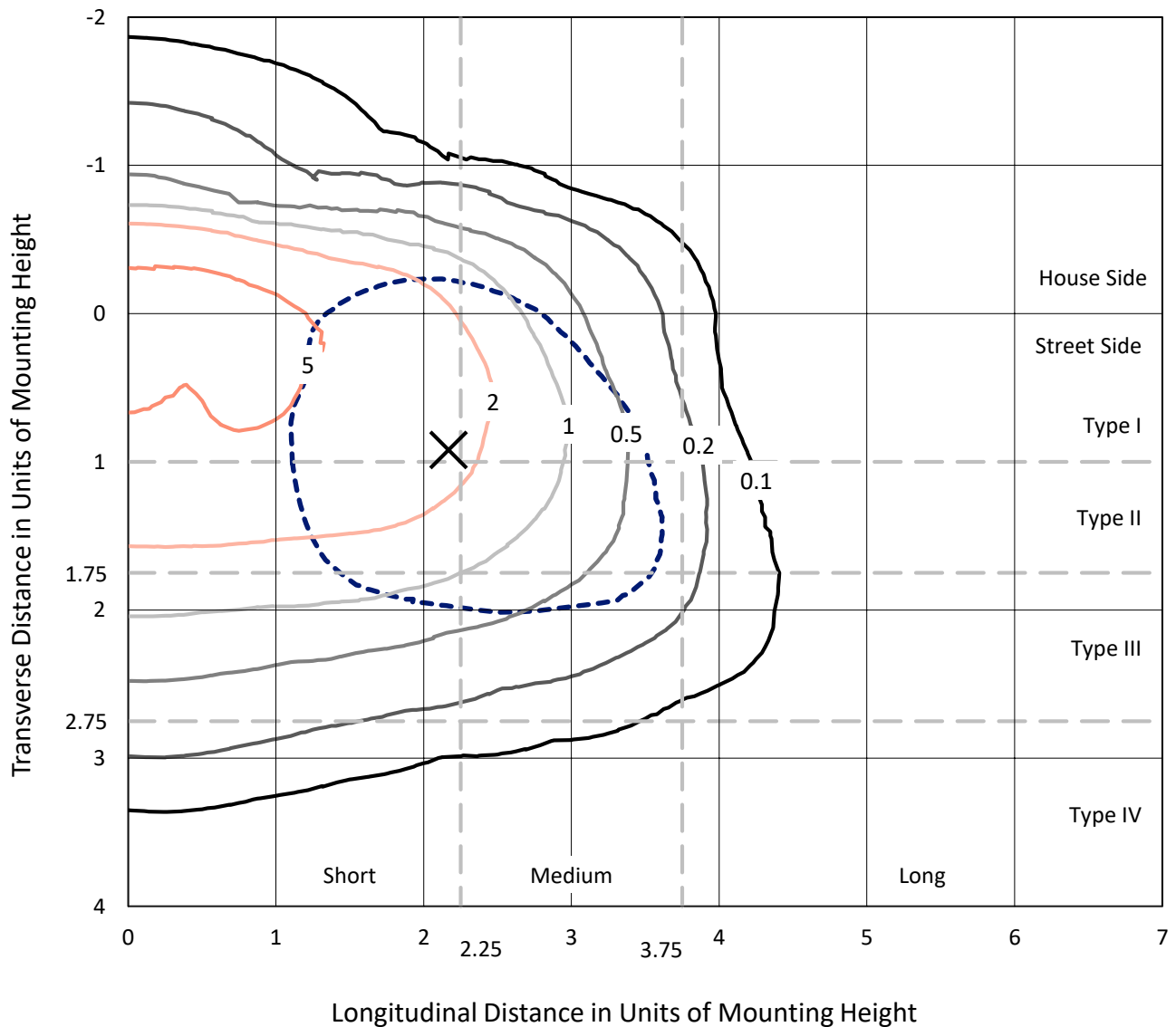
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

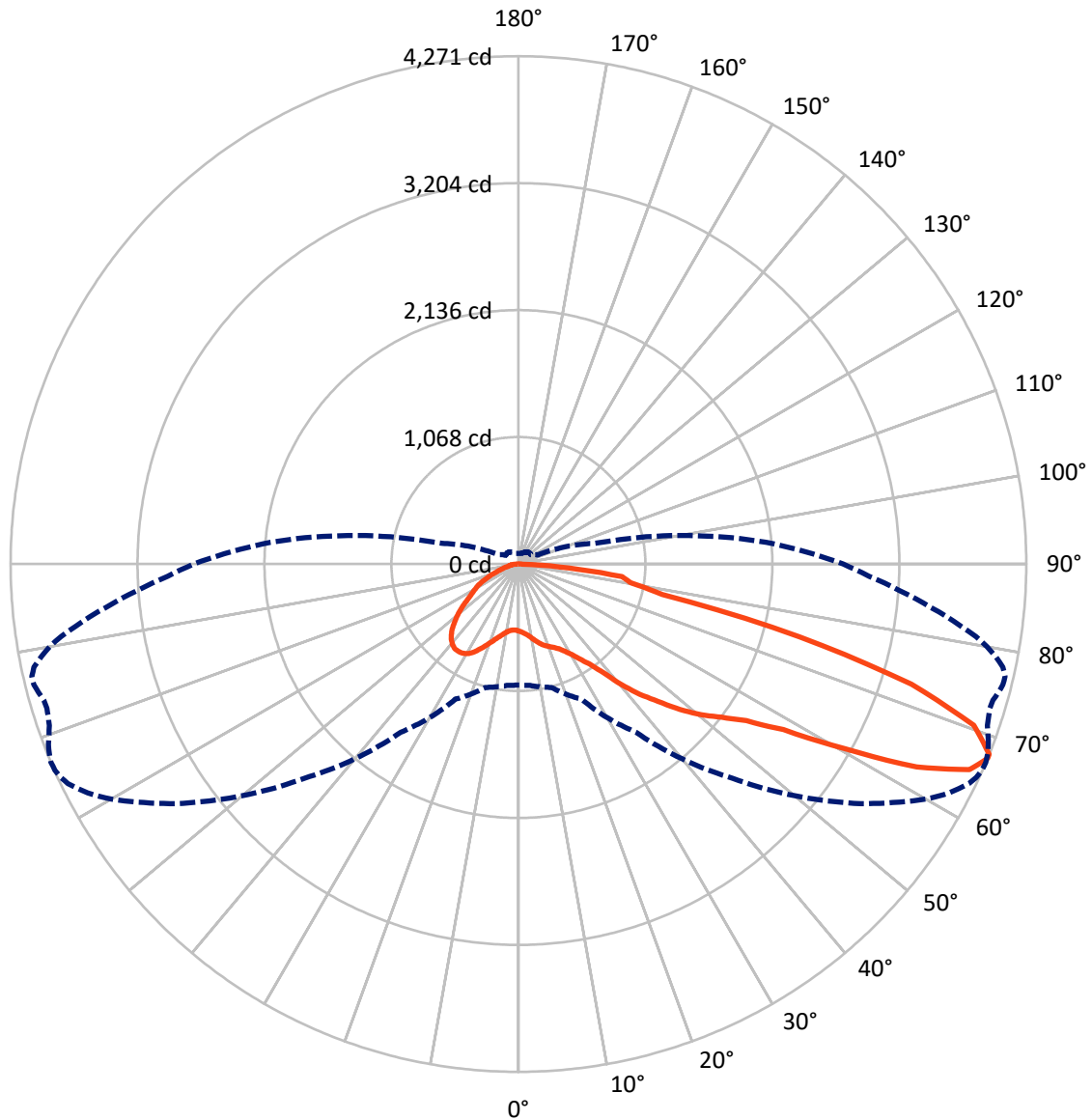
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1190.6	0.0	1190.6
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	3968.7	0.0	3968.7
	% Fixture	76.9	0.0	76.9
Total	Lumens	5159.3	0.0	5159.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	1.1
10°-20°	192.4	3.7
20°-30°	339.7	6.6
30°-40°	487.6	9.5
40°-50°	740.6	14.4
50°-60°	1090.5	21.1
60°-70°	1449.2	28.1
70°-80°	709.0	13.7
80°-90°	94.1	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5159.3	100.0
0°-180°	5159.3	100.0



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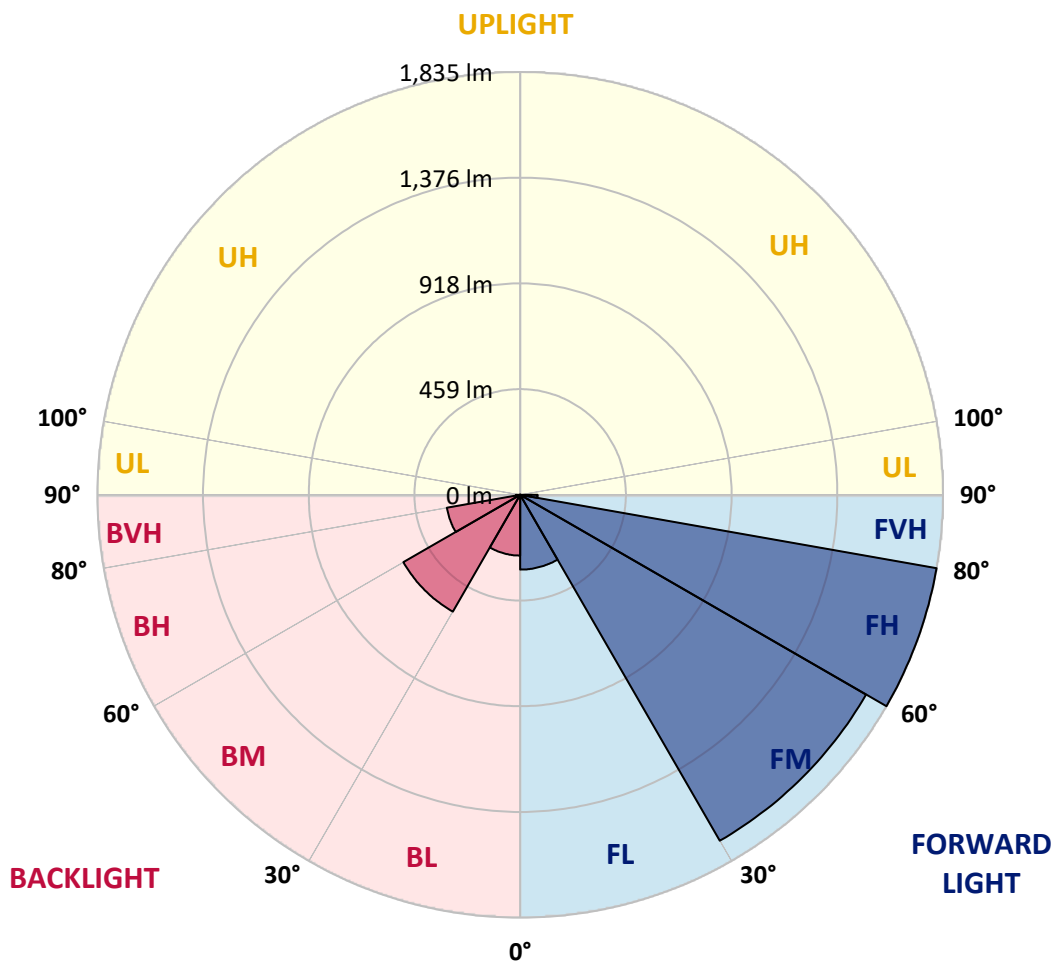
CATALOG NUMBER: ICM-E02-LED-E1-SL3-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	324.6	6.3			
FM	(30°-60°)	1733.4	33.6			
FH	(60°-80°)	1835.1	35.6			G2/5000
FVH	(80°-90°)	75.6	1.5			G1/100
BL	(0°-30°)	263.7	5.1	B1/500		
BM	(30°-60°)	585.3	11.3	B1/1000		
BH	(60°-80°)	323.0	6.3	B1/500		G1/500
BVH	(80°-90°)	18.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6
2.5°	590.2	590.8	589.7	589.1	585.7	582.2	580.0	577.2	577.2	577.2	576.1
5°	623.6	621.4	623.1	619.1	612.3	606.1	599.8	594.7	593.6	593.6	591.4
7.5°	663.8	661.0	659.9	654.2	644.0	635.0	622.5	617.4	614.6	613.4	612.3
10°	712.6	712.6	705.2	695.5	682.0	666.1	652.6	643.4	642.9	642.9	637.8
12.5°	762.4	763.5	753.9	744.3	722.1	701.2	685.4	675.2	674.6	672.4	669.5
15°	808.3	805.5	799.3	785.0	760.7	735.8	715.9	705.8	703.5	701.2	699.5
17.5°	846.2	843.4	835.4	817.3	791.8	762.4	738.1	727.3	726.1	725.0	722.8
20°	870.1	867.7	856.5	835.4	808.8	778.8	752.7	745.4	743.2	743.2	742.1
22.5°	883.6	880.2	863.8	836.0	810.0	787.9	766.3	761.9	760.1	760.7	760.7
25°	890.4	887.5	864.4	824.7	799.8	793.6	784.5	781.7	782.2	782.8	783.9
27.5°	891.5	887.5	860.4	810.0	786.8	804.3	810.5	815.1	815.1	817.3	821.3
30°	883.1	878.5	852.5	798.6	781.1	825.9	850.8	862.7	867.2	866.1	875.2
32.5°	868.3	865.5	844.6	798.6	796.9	868.3	912.5	929.5	931.7	932.9	943.1
35°	863.3	862.7	853.6	825.9	846.2	943.1	1010.5	1023.5	1026.3	1026.3	1033.7
37.5°	862.1	864.9	875.2	876.8	932.9	1054.1	1142.5	1162.3	1162.3	1168.0	1168.0
40°	862.1	868.3	906.8	952.8	1038.8	1198.5	1320.9	1343.5	1343.5	1349.8	1346.4
42.5°	895.5	904.6	968.0	1055.3	1172.5	1347.5	1488.0	1513.5	1515.2	1513.5	1518.6
45°	961.2	969.1	1046.1	1171.4	1310.1	1507.3	1647.7	1678.3	1672.1	1676.0	1677.8
47.5°	1048.5	1060.9	1148.7	1298.2	1444.4	1655.1	1826.7	1854.4	1852.2	1853.9	1846.5
50°	1141.3	1154.3	1252.4	1424.0	1578.1	1774.1	1970.6	2011.9	2008.0	2010.8	2014.8
52.5°	1223.4	1231.4	1326.0	1518.6	1679.5	1885.0	2081.0	2132.6	2141.7	2142.8	2145.6
55°	1272.2	1281.8	1368.5	1565.6	1753.0	1993.8	2207.4	2285.5	2303.1	2307.6	2320.1
57.5°	1289.2	1299.4	1378.1	1572.4	1793.3	2095.7	2383.5	2521.1	2535.8	2560.2	2599.9
60°	1288.6	1299.4	1367.9	1557.1	1834.1	2222.1	2657.7	2888.2	2963.0	2987.8	3044.5
62.5°	1235.9	1248.4	1318.1	1510.6	1886.2	2383.5	3065.5	3420.0	3516.4	3561.7	3622.8
65°	1120.4	1129.4	1194.6	1392.8	1871.5	2542.7	3406.4	3848.9	3936.7	4002.9	4112.2
67°	1017.9	1023.5	1074.5	1253.5	1727.5	2548.3	3514.1	3955.4	4031.8	4102.1	4214.7
67.5°	991.8	1003.7	1043.4	1211.0	1673.8	2516.0	3506.7	3938.9	4017.0	4090.2	4209.0
70°	807.2	824.1	844.0	956.7	1315.8	2116.8	3246.7	3654.5	3723.1	3791.1	3957.0
72.5°	497.9	528.5	532.5	603.8	856.5	1463.1	2627.1	3081.9	3133.4	3182.2	3352.1
75°	293.4	298.0	312.1	369.9	502.4	874.5	1762.7	2289.5	2337.0	2360.9	2494.0
77.5°	163.7	168.2	180.1	230.0	386.3	589.1	1026.3	1345.2	1374.1	1404.2	1382.6
80°	68.0	74.2	79.9	92.9	180.7	465.0	705.8	855.3	874.0	891.5	913.7
82.5°	32.8	35.2	43.1	49.3	65.7	190.9	553.4	741.5	763.5	789.0	840.6
85°	15.3	17.0	23.8	28.3	31.7	48.2	185.2	360.8	391.4	397.0	407.3
87.5°	1.1	1.1	2.8	4.0	5.7	6.2	19.3	27.2	30.6	27.7	35.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6
2.5°	575.4	574.9	573.8	573.8	573.2	573.2	573.2	572.1	572.1	572.1	571.5
5°	590.8	590.2	588.5	588.5	587.4	587.4	585.7	585.1	584.0	584.0	583.4
7.5°	610.6	610.1	607.7	607.7	606.1	605.5	604.4	602.7	602.7	601.6	600.4
10°	637.8	636.1	635.5	632.7	633.3	632.1	631.0	629.3	628.2	627.1	625.9
12.5°	668.4	668.4	665.6	663.8	664.9	663.8	661.6	661.0	659.4	659.4	657.6
15°	697.3	697.3	696.1	693.9	694.4	692.7	692.2	691.1	688.7	689.3	688.7
17.5°	722.1	722.1	720.5	719.4	719.4	717.7	718.2	717.1	715.9	715.4	713.7
20°	742.1	742.1	740.8	739.7	740.3	740.3	738.6	738.6	738.6	737.5	737.5
22.5°	761.3	761.9	761.9	761.9	762.4	763.0	762.4	763.5	763.0	764.1	764.1
25°	786.8	788.5	789.6	789.6	792.5	793.0	793.6	795.3	795.3	796.9	797.5
27.5°	824.7	825.9	830.3	831.5	832.1	836.6	837.2	839.4	841.7	842.2	842.8
30°	876.8	879.6	883.1	885.3	885.3	891.0	893.2	892.1	898.3	900.0	902.3
32.5°	946.5	948.7	952.2	954.4	956.7	959.5	960.1	962.9	968.0	972.6	969.7
35°	1034.3	1039.9	1034.3	1040.5	1042.2	1046.1	1045.0	1048.5	1050.7	1052.4	1051.8
37.5°	1161.8	1158.9	1157.8	1155.5	1151.5	1165.1	1158.3	1157.8	1154.3	1164.0	1157.8
40°	1329.4	1331.1	1332.8	1323.7	1318.6	1318.6	1316.9	1310.7	1307.9	1316.4	1315.3
42.5°	1504.4	1506.1	1498.1	1492.6	1479.5	1477.8	1469.9	1468.2	1465.3	1469.9	1465.3
45°	1663.5	1664.8	1647.2	1650.0	1639.8	1641.5	1629.0	1634.1	1627.4	1631.8	1640.4
47.5°	1841.4	1843.7	1828.4	1834.6	1824.5	1818.2	1817.7	1821.0	1813.7	1818.2	1820.5
50°	2002.9	2000.0	1992.1	1993.8	1989.3	1990.4	1983.6	1989.9	1981.3	1990.4	1989.3
52.5°	2146.2	2142.8	2141.0	2146.7	2142.8	2142.8	2138.8	2141.7	2142.8	2156.4	2159.2
55°	2320.1	2322.9	2325.7	2335.9	2340.5	2333.1	2340.5	2354.6	2355.2	2387.5	2405.0
57.5°	2599.3	2619.2	2629.3	2635.6	2662.2	2659.4	2676.4	2710.3	2713.7	2788.5	2832.1
60°	3086.4	3121.5	3155.0	3136.9	3190.6	3207.1	3217.3	3280.8	3300.6	3371.4	3409.3
62.5°	3701.6	3705.5	3757.6	3741.2	3771.8	3764.5	3776.9	3805.8	3831.8	3890.2	3925.9
65°	4130.9	4149.6	4170.0	4149.0	4148.5	4123.6	4107.7	4107.1	4123.0	4135.5	4175.1
67°	4247.6	4266.3	4271.4	4256.1	4234.0	4202.3	4172.9	4157.5	4147.4	4153.0	4177.9
67.5°	4246.4	4264.0	4270.3	4255.6	4225.0	4198.4	4167.2	4149.6	4136.0	4138.8	4159.8
70°	4005.1	4043.1	4063.6	4068.0	4064.1	4017.6	3991.0	3975.2	3963.8	3936.0	3934.3
72.5°	3393.4	3439.3	3455.2	3480.7	3492.0	3423.5	3394.5	3412.1	3372.5	3284.7	3288.7
75°	2491.7	2495.1	2441.9	2431.6	2393.7	2238.5	2192.0	2149.6	2081.6	1975.6	1876.0
77.5°	1298.8	1298.2	1237.0	1205.9	1160.6	1067.2	1062.6	986.7	933.5	836.6	801.5
80°	922.7	937.4	957.9	968.0	952.2	915.9	866.1	812.3	750.5	689.9	617.4
82.5°	858.1	867.2	878.0	838.3	816.2	765.2	727.3	649.1	605.5	536.4	463.4
85°	417.5	445.2	423.7	398.8	390.2	305.3	295.1	246.4	223.7	184.1	171.6
87.5°	26.6	32.8	29.5	26.6	23.3	13.0	17.6	12.5	13.0	9.7	8.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6
2.5°	571.5	571.0	570.4	569.9	569.2	569.2	568.7	568.1	567.5	566.4	566.4
5°	582.2	582.2	581.7	580.6	580.6	579.4	577.8	577.2	577.2	576.1	574.9
7.5°	599.8	599.3	598.1	597.6	596.5	595.4	594.1	593.0	592.5	590.8	590.2
10°	626.4	625.3	622.5	621.4	620.8	619.6	618.5	617.4	615.7	614.6	614.0
12.5°	656.5	655.9	653.7	654.8	651.9	650.8	649.7	646.9	648.0	645.7	644.6
15°	686.5	687.1	686.0	686.0	683.6	682.0	680.8	678.6	678.1	676.8	675.7
17.5°	713.1	714.2	712.6	711.4	710.3	709.1	706.9	704.7	704.7	702.3	701.2
20°	737.5	738.6	738.1	736.9	735.3	734.6	733.5	731.8	731.8	730.7	729.0
22.5°	765.2	765.8	765.8	765.2	763.5	764.1	763.0	761.3	761.9	759.5	759.5
25°	798.6	799.8	800.9	801.5	800.4	800.9	799.8	798.6	798.1	798.6	798.1
27.5°	844.6	845.7	849.0	846.2	849.0	849.7	847.9	845.7	847.4	850.2	848.5
30°	905.1	904.0	908.6	909.1	908.6	909.1	908.0	906.2	907.4	912.5	909.7
32.5°	973.1	975.4	976.5	977.7	979.4	981.6	979.9	978.2	981.0	979.4	983.4
35°	1055.3	1060.4	1062.1	1060.4	1061.5	1065.4	1064.8	1065.4	1071.1	1065.4	1072.8
37.5°	1158.9	1164.0	1168.0	1165.7	1168.6	1168.6	1173.0	1185.5	1177.6	1187.8	1195.7
40°	1309.6	1317.5	1318.1	1317.5	1320.3	1323.7	1328.3	1341.9	1332.8	1343.5	1350.9
42.5°	1464.8	1474.4	1477.8	1472.1	1478.3	1485.7	1486.3	1498.1	1498.8	1500.5	1504.4
45°	1639.8	1648.3	1655.1	1652.3	1652.8	1662.4	1660.2	1671.5	1663.0	1663.0	1665.3
47.5°	1826.2	1834.1	1838.6	1843.2	1837.5	1846.0	1850.0	1847.6	1837.5	1835.2	1821.6
50°	1996.1	2002.9	2009.7	2022.2	2021.6	2025.5	2028.4	2018.2	2015.9	2003.5	1988.1
52.5°	2176.2	2193.8	2209.0	2235.1	2239.1	2252.7	2247.5	2230.5	2227.7	2207.4	2187.0
55°	2427.1	2477.5	2499.6	2539.8	2567.0	2566.4	2555.1	2552.3	2530.8	2490.0	2465.6
57.5°	2863.8	2942.5	2980.5	3032.7	3041.1	3036.0	3021.3	2995.3	2957.9	2889.3	2845.1
60°	3494.3	3543.0	3587.2	3599.6	3605.9	3596.2	3544.7	3486.9	3413.8	3319.3	3240.5
62.5°	3970.6	4020.5	4053.3	4048.2	4009.1	3959.8	3884.5	3787.7	3685.1	3579.2	3461.4
65°	4213.0	4234.0	4228.9	4189.2	4122.4	4036.3	3926.4	3806.9	3686.3	3561.1	3438.7
67°	4200.0	4200.6	4166.1	4089.0	4003.5	3895.3	3761.0	3630.8	3489.1	3357.8	3212.2
67.5°	4176.8	4174.5	4126.4	4042.0	3949.7	3838.1	3698.7	3563.9	3417.2	3284.7	3134.0
70°	3914.0	3882.3	3773.5	3638.7	3510.2	3359.5	3213.3	3058.7	2893.3	2779.5	2606.1
72.5°	3216.1	3109.1	2921.6	2780.6	2642.9	2445.8	2354.6	2162.6	2046.5	1974.0	1843.2
75°	1862.4	1772.9	1627.9	1495.9	1429.1	1312.4	1256.8	1115.8	1086.4	1085.3	1039.9
77.5°	710.9	620.2	526.8	424.3	360.8	286.6	252.7	226.0	205.6	219.8	199.4
80°	533.0	438.4	342.7	249.2	177.9	131.4	112.7	104.2	99.2	95.2	92.4
82.5°	397.0	313.2	243.0	158.6	111.0	83.8	72.5	68.0	65.7	61.8	58.3
85°	134.2	107.6	84.9	58.9	46.4	38.0	35.2	34.0	32.3	29.5	27.7
87.5°	7.3	6.8	7.3	5.7	6.8	5.7	6.2	6.2	6.2	5.7	5.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6	563.6
2.5°	565.9	565.9	565.9	564.7	563.0	559.6	556.2	553.4	550.6	548.8	547.7
5°	574.3	573.2	572.7	572.1	568.1	561.3	555.1	549.4	543.7	539.3	537.5
7.5°	589.7	587.4	586.8	585.1	580.0	569.9	560.7	551.7	543.7	537.5	534.7
10°	612.8	612.8	609.5	607.2	601.6	587.9	574.9	563.0	552.3	545.5	543.7
12.5°	642.3	642.3	639.4	637.8	631.0	613.4	597.6	583.4	573.2	566.4	565.9
15°	672.9	672.4	670.1	667.8	660.5	641.8	625.9	613.4	604.9	597.0	594.7
17.5°	700.1	700.1	697.3	695.0	687.6	671.8	657.6	648.6	638.9	622.5	610.1
20°	727.3	727.8	725.6	723.4	717.1	703.5	697.3	688.2	666.7	631.0	601.6
22.5°	757.3	759.5	756.7	754.5	749.4	743.7	741.5	719.9	674.6	617.4	574.3
25°	795.8	799.8	796.4	795.3	792.5	794.1	787.4	737.5	663.3	587.9	534.1
27.5°	848.5	848.5	849.0	849.0	847.9	854.1	829.2	738.1	638.3	550.0	486.0
30°	910.2	913.7	912.5	912.5	917.0	921.0	852.5	725.6	606.6	503.0	427.1
32.5°	984.5	987.3	988.4	983.4	1001.4	981.0	860.9	702.9	567.5	444.7	356.8
35°	1074.0	1077.9	1080.8	1081.3	1093.2	1033.1	856.5	669.5	511.4	371.5	279.8
37.5°	1190.6	1198.5	1204.8	1207.6	1208.2	1077.3	844.0	625.3	438.4	290.0	208.5
40°	1345.8	1354.3	1352.7	1358.2	1326.0	1103.4	815.6	561.3	347.8	212.9	160.8
42.5°	1495.4	1496.5	1498.8	1493.7	1427.9	1117.0	776.0	483.2	260.6	159.2	137.7
45°	1662.4	1652.8	1642.1	1634.1	1522.0	1122.1	721.6	388.0	184.1	133.7	127.4
47.5°	1819.4	1806.3	1784.2	1761.6	1605.8	1114.1	651.9	290.6	139.9	122.3	120.7
50°	1973.4	1949.0	1917.9	1891.8	1686.2	1102.2	574.9	209.6	122.3	116.7	115.0
52.5°	2164.3	2123.5	2082.7	2048.8	1791.0	1083.5	494.0	159.2	115.0	112.2	109.9
55°	2426.0	2369.3	2303.6	2256.0	1933.2	1055.3	408.9	134.8	111.6	109.3	106.0
57.5°	2788.5	2703.6	2629.3	2551.7	2127.5	1026.3	335.9	125.2	111.0	107.6	103.1
60°	3158.9	3056.9	2962.3	2851.4	2325.7	997.5	284.9	124.0	112.7	107.6	100.8
62.5°	3351.6	3246.2	3132.3	3019.6	2411.3	929.5	249.8	125.8	116.7	109.3	100.8
65°	3307.4	3178.7	3063.2	2948.2	2312.1	800.9	211.3	128.0	124.7	116.1	102.5
67°	3085.3	2951.1	2840.0	2730.2	2091.3	670.6	181.2	130.2	133.1	124.0	106.0
67.5°	3007.2	2872.9	2763.6	2656.5	2026.1	643.4	173.9	131.4	134.8	126.3	107.1
70°	2493.4	2394.8	2278.7	2196.0	1640.4	476.4	142.7	133.7	145.0	139.3	112.2
72.5°	1794.4	1700.4	1613.1	1567.3	1208.2	333.0	120.1	131.4	151.3	146.7	114.4
75°	953.9	948.2	916.5	939.2	747.6	217.5	106.0	122.9	144.5	134.2	106.5
77.5°	192.6	198.2	232.8	229.4	241.3	121.2	90.6	105.4	111.6	98.5	86.7
80°	89.5	87.8	86.1	87.3	85.5	77.6	73.7	82.7	77.6	63.4	57.8
82.5°	55.5	54.4	52.7	52.1	57.8	61.8	64.6	65.1	51.5	44.2	42.5
85°	26.6	26.6	26.0	27.2	34.0	50.4	54.4	48.2	34.5	31.7	30.0
87.5°	5.1	5.1	5.7	5.1	6.8	11.9	13.6	15.8	13.0	13.6	15.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CATALOG NUMBER: ICM-E02-LED-E1-SL3-7030

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	563.6	563.6	563.6
2.5°	546.6	545.5	545.5
5°	535.3	534.7	534.7
7.5°	532.5	533.0	532.5
10°	543.2	542.6	544.9
12.5°	567.0	568.7	568.1
15°	591.9	593.0	593.0
17.5°	599.3	595.4	594.7
20°	580.0	572.7	571.0
22.5°	543.7	530.1	530.7
25°	497.9	481.5	482.6
27.5°	444.7	427.1	426.5
30°	380.7	361.4	351.7
32.5°	303.6	280.4	280.4
35°	228.3	209.6	202.8
37.5°	173.3	162.6	159.2
40°	144.5	139.3	138.2
42.5°	131.4	129.7	129.1
45°	124.7	123.4	122.9
47.5°	118.4	117.9	117.2
50°	113.9	113.3	112.7
52.5°	109.9	108.7	108.2
55°	104.2	104.2	104.2
57.5°	100.8	100.8	100.3
60°	97.4	96.8	96.8
62.5°	94.6	93.5	94.0
65°	92.9	91.2	91.2
67°	91.7	88.4	88.4
67.5°	91.7	87.3	87.3
70°	90.0	82.7	81.6
72.5°	88.4	77.6	75.9
75°	83.8	73.7	71.9
77.5°	71.9	65.7	64.6
80°	55.5	48.2	49.3
82.5°	40.2	34.5	34.0
85°	28.9	24.9	24.9
87.5°	15.3	13.0	13.6
90°	0.0	0.0	0.0

(END OF REPORT)